

CLAIMS

1. A composition comprising a substantially purified composition including an adhesive and a polypeptide comprising amino acid sequence LKKTET or a conservative variant thereof.
- 5 2. The composition of claim 1 wherein said adhesive is capable of adhering to tissue of a living subject.
3. The composition of claim 2 wherein said adhesive is biodegradable.
4. The composition of claim 1 wherein said adhesive is fibrin, fibrinogen, fibrin glue, collagen, a fragment thereof, or a mixture  
10 thereof.
5. The composition of claim 4 wherein said adhesive and said polypeptide are covalently bound together.
6. The composition of claim 5 wherein said adhesive and said polypeptide are covalently bound by factor XIIIa.
- 15 7. The composition of claim 6 wherein said adhesive is a fragment of fibrin or fibrinogen.
8. The composition of claim 1 wherein said polypeptide comprises amino acid sequence KLKKTET or LKKTETQ, Thymosin  $\beta$ 4 (T $\beta$ 4), an N-terminal variant of T $\beta$ 4, a C-terminal variant of T $\beta$ 4, an isoform of T $\beta$ 4,  
20 a splice-variant of T $\beta$ 4, oxidized T $\beta$ 4, T $\beta$ 4 sulfoxide, lymphoid T $\beta$ 4 or pegylated T $\beta$ 4.
9. The composition of claim 1 wherein said polypeptide is recombinant or synthetic.
- 25 10. The composition of claim 1 wherein said polypeptide is an antibody.

11. The composition of claim 10 wherein said antibody is polyclonal or monoclonal.
12. The composition of claim 4 wherein the concentration of said polypeptide is within a range of about 0.01-1 mole said polypeptide per mole of said adhesive.
13. The composition of claim 12 wherein said range is about 0.1-0.5 mole said polypeptide per mole of said adhesive.
14. The composition of claim 13 wherein said range is about 0.2-0.4 mole said polypeptide per mole of said adhesive.
15. The method of delivering a polypeptide to a site, comprising introducing the composition of claim 1 to said site.
16. The method of claim 15 wherein said composition is applied to said site by spaying.
17. The method of claim 16 wherein said site is a wound.
18. The method of claim 15 wherein said adhesive is capable of adhering to tissue of a living subject.
19. The method of claim 18 wherein said adhesive is biodegradable.
20. The method of claim 15 wherein said adhesive is fibrin, fibrinogen, fibrin glue, collagen, a fragment thereof or a mixture thereof.
21. The method of claim 20 wherein said adhesive is covalently bound to said polypeptide.
22. The method of claim 21 wherein said adhesive is covalently bound to said polypeptide by factor XIIIa.
23. The method of claim 22 wherein said adhesive is a fragment of fibrin or fibrinogen.

24. The method of claim 15 polypeptide comprises amino acid  
sequence KLKKTET or LKKTETQ, Thymosin  $\beta$ 4 (T $\beta$ 4), an N-terminal  
variant of T $\beta$ 4, a C-terminal variant of T $\beta$ 4, an isoform of T $\beta$ 4, a splice-  
variant of T $\beta$ 4, oxidized T $\beta$ 4, T $\beta$ 4 sulfoxide, lymphoid T $\beta$ 4 or pegylated  
5 T $\beta$ 4.
25. The method of claim 15 wherein said polypeptide is recombinant or  
synthetic.
26. The method of claim 15 wherein said polypeptide is an antibody.
27. The method of claim 26 wherein said antibody is polyclonal or  
10 monoclonal.
28. The method of claim 20 wherein said polypeptide is a concentration  
that is within a range of about 0.1-1 mole said polypeptide per mole of  
said adhesive.
29. The method of claim 28 wherein said range is about 0.1-0.5 mole  
15 said polypeptide per mole of said adhesive.
30. The method of claim 29 wherein said range is about 0.2-0.4 mole  
said polypeptide per mole of said adhesive.